

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P564376

Luminaire Tested: **SQ4-PR1-125U-075D-940-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564376
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-125U-075D-940-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

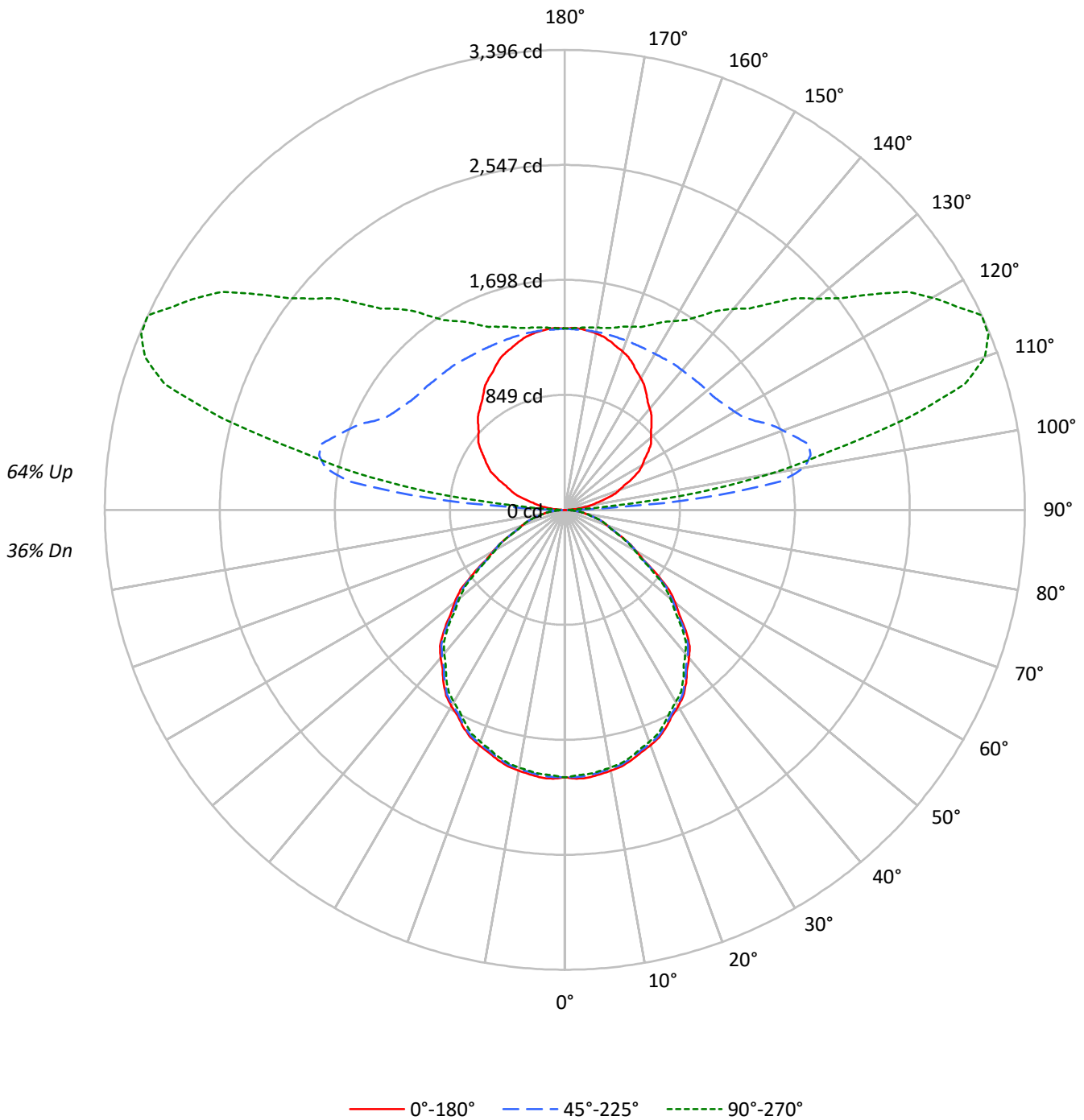
Lumens per Lamp: N/A
Luminaire Lumens: 13584.9 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 116
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P564376
CATALOG NUMBER: SQ4-PR1-125U-075D-940-1D-UNV-STD-W-8

Luminous Intensity Polar Plot





TEST NUMBER: P564376

CATALOG NUMBER: SQ4-PR1-125U-075D-940-1D-UNV-STD-W-8

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	36
1	95	91	87	84	86	82	79	76	67	64	62	52	51	49	39	38	37	31
2	87	79	74	69	78	72	67	63	59	55	52	46	44	42	34	33	32	26
3	79	70	63	57	71	64	58	53	52	48	44	41	38	35	31	29	27	23
4	72	62	54	49	65	56	50	45	46	41	38	36	33	30	28	25	24	19
5	66	55	47	42	60	50	44	38	41	36	32	33	29	26	25	22	21	17
6	61	49	42	36	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	56	45	37	31	51	41	34	29	34	29	25	27	23	20	21	18	16	13
8	52	40	33	28	47	37	30	26	31	26	22	25	21	18	19	16	14	12
9	49	37	30	25	44	34	27	23	28	23	20	23	19	16	17	15	13	11
10	45	34	27	22	41	31	25	21	26	21	18	21	17	15	16	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9112	9112	9112
5°	9194	9123	9076
10°	9165	9102	9054
15°	9125	9068	9020
20°	9079	9021	8954
25°	9015	8954	8850
30°	8918	8855	8727
35°	8786	8710	8585
40°	8586	8494	8340
45°	8236	8092	7925
50°	7620	7437	7289
55°	6651	6500	6363
60°	5604	5557	5447
65°	4848	4866	4829
70°	4452	4475	4475
75°	4276	4276	4306
80°	4022	4067	4022
85°	3245	3604	3604



TEST NUMBER: P564376

CATALOG NUMBER: SQ4-PR1-125U-075D-940-1D-UNV-STD-W-8

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.8	1.4
10°-20°	534.4	3.9
20°-30°	806.1	5.9
30°-40°	960.5	7.1
40°-50°	946.9	7.0
50°-60°	723.7	5.3
60°-70°	447.9	3.3
70°-80°	254.4	1.9
80°-90°	80.5	0.6
90°-100°	626.4	4.6
100°-110°	1687.3	12.4
110°-120°	1770.7	13.0
120°-130°	1436.9	10.6
130°-140°	1126.9	8.3
140°-150°	865.2	6.4
150°-160°	622.1	4.6
160°-170°	380.0	2.8
170°-180°	128.2	0.9
0°-30°	1527.4	11.2
0°-40°	2487.8	18.3
0°-60°	4158.5	30.6
0°-90°	4941.3	36.4
90°-120°	4084.4	30.1
90°-150°	7513.4	55.3
90°-180°	8644.0	63.6
0°-180°	13584.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1975	1975	1975	1975	1975	
5°	1986	1964	1970	1963	1960	188
15°	1911	1891	1899	1892	1889	539
25°	1771	1750	1759	1740	1739	815
35°	1560	1542	1547	1526	1524	974
45°	1262	1246	1240	1218	1215	967
55°	827	814	808	794	791	741
65°	444	441	446	442	442	450
75°	240	240	240	242	242	253
85°	61	65	68	68	68	71
90°	3	10	20	22	22	9
95°	96	341	1027	525	363	100
105°	312	486	1866	2792	2620	328
115°	551	674	1554	3002	3396	542
125°	752	864	1395	2358	2775	672
135°	906	1011	1356	1902	2154	699
145°	1047	1129	1339	1626	1747	657
155°	1189	1232	1327	1459	1506	547
165°	1290	1304	1332	1385	1392	364
175°	1341	1339	1334	1352	1349	127
180°	1339	1339	1339	1339	1339	

TEST NUMBER: P564376

CATALOG NUMBER: SQ4-PR1-125U-075D-940-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1975.3	1975.3	1975.3	1975.3	1975.3
2.5°	1987.6	1970.3	1975.3	1971.0	1961.7
5°	1985.5	1963.9	1970.2	1963.3	1960.0
7.5°	1970.2	1948.9	1955.3	1948.4	1946.4
10°	1956.6	1936.6	1943.0	1936.1	1932.8
12.5°	1941.6	1920.3	1928.0	1919.8	1916.5
15°	1910.7	1890.7	1898.8	1891.9	1888.6
17.5°	1876.6	1855.4	1863.4	1855.5	1851.1
20°	1849.4	1829.5	1837.5	1825.6	1823.9
22.5°	1819.5	1799.5	1807.6	1791.6	1791.2
25°	1771.2	1749.5	1759.2	1740.5	1738.8
27.5°	1713.7	1693.7	1701.7	1682.6	1680.6
30°	1674.2	1654.2	1662.3	1641.8	1638.4
32.5°	1629.3	1610.6	1617.4	1596.9	1594.9
35°	1560.2	1541.9	1546.6	1526.1	1524.5
37.5°	1481.6	1464.9	1467.6	1445.1	1443.5
40°	1425.8	1409.1	1410.5	1386.6	1384.9
42.5°	1364.5	1347.9	1346.5	1322.6	1321.0
45°	1262.4	1245.8	1240.3	1218.1	1214.8
47.5°	1146.1	1129.4	1119.2	1101.1	1098.8
50°	1061.7	1045.0	1036.2	1020.7	1015.7
52.5°	970.5	953.8	946.3	932.3	927.3
55°	826.9	813.6	808.2	794.5	791.2
57.5°	690.4	681.4	679.9	666.6	665.2
60°	607.4	602.4	602.3	590.4	590.4
62.5°	536.6	533.0	535.6	527.7	526.4
65°	444.1	440.7	445.8	442.4	442.4
67.5°	370.9	370.9	374.0	372.6	372.6
70°	330.1	330.1	331.8	331.8	331.8
72.5°	293.3	292.0	296.4	296.4	295.0
75°	239.9	239.9	239.9	241.6	241.6
77.5°	186.8	187.1	188.5	188.1	186.8
80°	151.4	153.1	153.1	151.4	151.4
82.5°	116.0	117.7	117.7	117.4	116.0
85°	61.3	64.6	68.1	68.1	68.1
87.5°	18.4	25.0	31.3	31.6	30.3
90°	3.4	10.1	20.5	22.2	22.2
92.5°	41.6	147.0	290.6	139.9	97.2
95°	95.5	340.7	1026.8	525.1	363.3
97.5°	152.5	390.0	1610.5	1345.4	1014.5
100°	196.2	409.6	1796.1	1879.2	1559.0
102.5°	238.5	437.2	1857.5	2278.9	2016.1
105°	312.1	485.6	1866.0	2791.7	2619.9
107.5°	381.7	536.5	1786.5	3055.2	3099.5
110°	428.1	574.9	1714.2	3137.0	3298.7



TEST NUMBER: P564376

CATALOG NUMBER: SQ4-PR1-125U-075D-940-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	477.2	613.3	1644.6	3118.9	3384.7
115°	550.9	674.3	1553.9	3002.4	3396.0
117.5°	618.1	733.9	1483.6	2816.4	3254.7
120°	661.8	773.5	1448.1	2683.0	3133.3
122.5°	700.0	810.4	1422.2	2546.5	2995.5
125°	752.2	863.9	1395.2	2358.2	2775.1
127.5°	802.3	912.4	1378.2	2192.0	2564.3
130°	832.4	942.4	1371.3	2096.9	2423.7
132.5°	862.4	971.1	1364.5	2013.0	2313.2
135°	905.7	1010.8	1356.0	1902.4	2154.2
137.5°	947.0	1047.7	1351.6	1808.6	2015.4
140°	975.6	1072.4	1347.5	1750.8	1937.6
142.5°	1005.7	1095.7	1344.7	1697.0	1854.4
145°	1047.3	1129.0	1338.9	1626.5	1746.6
147.5°	1092.3	1163.3	1333.1	1567.3	1661.6
150°	1122.3	1184.0	1330.4	1530.0	1608.4
152.5°	1149.6	1203.3	1329.0	1499.7	1563.4
155°	1188.8	1232.2	1327.0	1459.4	1506.1
157.5°	1223.3	1257.0	1327.3	1431.1	1462.4
160°	1245.1	1273.5	1328.7	1414.5	1437.9
162.5°	1264.2	1287.2	1330.1	1400.7	1417.4
165°	1289.5	1304.5	1332.1	1385.1	1391.8
167.5°	1309.9	1318.6	1333.8	1373.1	1375.8
170°	1323.6	1326.9	1333.8	1366.2	1366.2
172.5°	1331.8	1332.4	1335.2	1359.4	1359.4
175°	1340.6	1339.0	1333.8	1352.5	1349.2
177.5°	1344.4	1341.7	1334.8	1345.7	1343.0
180°	1338.9	1338.9	1338.9	1338.9	1338.9

(END OF REPORT)